MATH 10250 Quiz 1 June 20, 2018

NAME:

You have **10 minutes** for the quiz. Please show your work and write neatly. NO CALCULATOR please!

1. Rewrite the expression using only positive exponents

$$(x^{-5}y)^{-3/2} = x^{15/2}y^{-3/2}$$

= $\frac{x^{15/2}}{y^{3/2}}$

2. Find the roots of

$$x^3 + 2x^2 - 3x = 0$$

We factor:

$$x^{3} + 2x^{2} - 3x = x(x^{2} + 2x - 3)$$
$$= x(x + 3)(x - 1).$$

Thus, the roots of the polynomial are x = -3, 0, and 1.